

WHAT IS CLAIMED IS:

1. A linear adjustment device for altering the position of a load comprising:
a positioning mechanism comprising:
a rod;
a first pipe slidably engaged with the rod; and
a second pipe slidably engaged with the rod;
a load sleeve, wherein the load sleeve is secured to the first pipe; and
an anchor sleeve, wherein the anchor sleeve is secured to the second pipe.
2. The linear adjustment device of Claim 1, wherein the first pipe is releasably secured to the rod by a first securing element and the second pipe is releasably secured to the rod by a second securing element.
3. The linear adjustment device of Claim 2, wherein:
the first securing element comprises a first nut disposed adjacent to a first terminal end of the first pipe and a second nut disposed adjacent to a second terminal end of the first pipe; and
the second securing element comprises a first nut disposed adjacent to a first terminal end of the second pipe and a second nut disposed adjacent to a second terminal end of the second pipe.

4. A linear adjustment system comprising:
a main structural element; and
a first linear adjustment device secured to the main structural element, wherein the first linear adjustment device comprises:
a positioning mechanism comprising:
a rod;
a first pipe, wherein the first pipe is slidably engaged with the rod; and
a second pipe, wherein the second pipe is slidably engaged with the rod;
a load sleeve, wherein the load sleeve is secured to the first pipe; and
an anchor sleeve, wherein the anchor sleeve is secured to the second pipe.
5. The linear adjustment system of Claim 4, wherein the load sleeve and the anchor sleeve are disposed on the main structural member.
6. The linear adjustment system of Claim 4, further comprising a fastening means, wherein the fastening means secures the anchor sleeve to the main structural member.
7. The linear adjustment system of Claim 6, wherein:
the main structural member comprises an upper hole disposed on a top layer of the main structural member and a lower hole disposed on a bottom layer of the main structural member;
the anchor sleeve comprises an upper hole disposed on a top layer of the anchor sleeve and a lower hole disposed on a bottom layer of the anchor sleeve; and
the fastening means comprises a nut and a bolt;
wherein the upper hole of the anchor sleeve is aligned with the upper hole of the main structural member, the lower hole of the anchor sleeve is aligned with the lower hole of the main structural member, the bolt is disposed through the upper holes of the anchor sleeve and the main structural member and through the lower holes of the anchor sleeve and the main structural member, and the nut envelops the bolt.

8. The linear adjustment system of Claim 4, wherein the positioning mechanism further comprises:

a first securing element, wherein the first securing element releasably secures the first pipe to the rod; and

a second securing element, wherein the second securing element releasably secures the second pipe to the rod.

9. The linear adjustment system of Claim 8, wherein:

the first securing element comprises:

a first nut, wherein the first nut is engaged with the rod and is adjacent to a first terminal end of the first pipe; and

a second nut, wherein the second nut is engaged with the rod and is adjacent to a second terminal end of the first pipe; and

the second securing element comprises:

a first nut, wherein the first nut is engaged with the rod and is adjacent to a first terminal end of the second pipe; and

a second nut, wherein the second nut is engaged with the rod and is adjacent to a second terminal end of the second pipe.

10. The linear adjustment system of Claim 4, further comprising a second linear adjustment device disposed on the main structural member, wherein the second linear adjustment device comprises

a positioning mechanism comprising:

a rod; and

a first pipe and a second pipe, wherein the first pipe and the second pipe are slidably engaged with the rod of the second linear adjustment device;

a load sleeve, wherein the load sleeve is secured to the first pipe of the second linear adjustment device; and

an anchor sleeve, wherein the anchor sleeve is secured to the second pipe of the second linear adjustment device.

11. A method for adjusting the position of a load wherein the load is attached to a linear adjustment system, and further wherein the linear adjustment system comprises:

- a main structural element; and

- a linear adjustment device secured to the main structural element, wherein the linear adjustment device comprises:

 - a positioning mechanism comprising:

 - a rod;

 - a first pipe slidably engaged with the rod, and secured thereto by a first securing element; and

 - a second pipe slidably engaged with the rod, and secured thereto by a second securing element;

 - a load sleeve, wherein the load sleeve is secured to the first pipe, and further wherein the load sleeve is disposed on the main structural member; and

 - an anchor sleeve, wherein the anchor sleeve is secured to the second pipe, and further wherein the anchor sleeve is disposed on the main structural member and is adjacent to the load sleeve;

wherein the method comprises:

- releasing the first securing element and the second securing element;

- sliding the rod either away from or towards the anchor sleeve; and

- sliding the first pipe and the load sleeve along the rod until the load is in a desired position, wherein the desired position is at a point along a plane parallel to the main structural member.